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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/699,792	10/30/2000	David L. Smith	10005131-1	10005131-1 7073	
7590 10/23/2003 HEWLETT-PACKARD COMPANY Intellectual Property Administration P.O. Box 272400 Fort Collins, CO 80527-2400			EXAMI	EXAMINER	
			ABDULSELAI	ABDULSELAM, ABBAS I	
			ART UNIT	PAPER NUMBER	
			2674	· 2674	
			DATE MAILED: 10/23/2003	10	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.		, <u> </u>					
## Deficie Action Summary ## Art Unit	ē.		Application No.	Applicant(s)			
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The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Editations of time may be available under the provisions of 3 CFR 1.136(a). In a overal, however, may a reply be timely filed Editations of time may be available under the provisions of 3 CFR 1.136(a). In a overal, however, may a reply be timely filed If the period for may be sponded above is less than thin; (30) days, a reply with the station reply in the period for may be sponded above is less than thin; (30) days, a reply with the station of thin; (30) says, will be considered timely. If the period for may be sponded above is less than thin; (30) days, a reply with the station of this provision of this communication. Final period for may be specified to the period of the communication of this communication. Final period for may be specified to the mainting day and oil agrices (30) (30) (30) (30) (30) (30) (30) (30)	Office Action Summary		Examiner	Art Unit			
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THE MAILING DATE OF THIS COMMUNICATION. Estateations of time may be variable under the provisions of 3 CPR 1.156(a). In no event, however, may a reply be limitly filed after SX (6) MCNTRIS time the mailing date of this communication. It NO period for reply is specified to the the mailing date of this communication. It NO period for reply is specified above, the maximum studenty period may be valued specified. S(6) MCNTRIS the mailing date of this communication. Failure to reply visible the set of certended period for reply will, by studied, cause the application to become ARANCONED (35 U.S. 0; 133). Any reply received by the Office into the three membras the the installing date of this communication, even if timely filed, may reduce any value and patent term adjustment. See 37 CPR 1.104(b). Status 1) Responsive to communication(s) filed on OT August 2003. 2a) This action is FINAL. 2b) This action is rink. 2b) This action is rink. 2a) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-4.9-14.16.18-20 and 24-37 is/are rejected. 7) Claim(s) 1-4.9-14.16.18-20 and 24-37 is/are rejected. 7) Claim(s) 1-4.9-14.16.18-20 and 24-37 is/are rejected. 8) The drawing(s) filed on is/are allowed. 8) Claim(s) 1-4.9-14.16.18-20 and 24-37 is/are rejected. 7) Claim(s) 1-4.9-14.16.18-20 and 24-37 is/are rejected. 8) The drawing(s) filed on is/are allowed. 10) The proposed drawing correction filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 11) The proposed drawing correction filed on is/are: a) approved b) disapproved by the Examiner. 11) The proposed drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 and 120 13) Acknowledgment is made of a claim			ears on the cover sheet with the o	correspondence address			
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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 9-14, 16, 18-20, 24-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawabe et al. (USPN 6166722) in view of Yong (6088021) and Ikehara et al. (USPN 6400353).

Regarding claims 1, 24-27, 33-34 and 36-37, kawabe teaches a personal computer (10), a display (14) a pointing device (40) electrically connected to a cable (5), and a cable-winding device. See Fig 3, col. 6, lines 50-54 and Fig 8. However, Kawabe does not teach a mechanism of cable and cable receiver such that the pointing device produces various modes corresponding to various length of the cable. On the other hand, Yong teaches an input device (202) including a reel assembly (214) which allows the cord (204) to be extended and retracted between fully extended lengths and fully retracted length. See col. 5, lines 17-21 and Fig 2.

It would have been obvious to one skilled in the art at the time the invention was made to modify kawabe's pointing device to include Yong's reel assembly and cord. One would have been motivated in view of the suggestion in Yong that the reel assembly and the cord can be used

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for the desired functions of changing the length of the cord and producing different modes. The use of reel assembly and cord helps an input device produce retractable cable as taught by Yong.

In addition, Yong teaches in reference to Fig 3(A-B), electronic encoders sensing the rotation of the ball (310) and generating a signal indicative of the computer's display. Col. 5, lines 47-50. Yong's Fig 1A also shows that the display (104) is part of a computer system (100) in which a central processing system (122) is an integral part (Fig 1B). Referring Fig 5, Yong further discloses the use of a shaft (518) coupled with sensors, which generate a signal causing a cursor displayed on the display. See col. 7, 52-65. Yong teaches that the mechanism in which spool (322) and the disk (350) are rotated against the force of the spring (342) and shows the movement of the tip of the flexible pawl (354) out of notch in the disk (350). See col. 7, lines 6-22. Furthermore, Yong mentions the use of the computer system (100) in terms of input/output system (136) that can include infrared and electroacoustic transducers. Col. 4, 25-40

Regarding claim 2, Young teaches a cord (204). See Fig. 3. It would have been obvious to set the size of the cord in a desired size.

Regarding claims 3-4, Yong teaches a keyboard (412) and mouse and (414) for entering information and commands into the computer (41). See Fig 4.

Regarding claims 10, 16 and 28, Yong teaches electric encoders sensing the rotation of the ball and generating a signal indicative of the ball's rotation to control movement of the cursor displayed on the display. See col. 1, lines 28-31.

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Regarding claims 12, and 19, Yong teaches a cord (204) with fully extended length shown as phantom lines and fully retracted length shown as solid lines. See col. 5, lines 17-21 and Fig 2.

Regarding claims 9, 13 and 18, Yong teaches an auxiliary memory (126), which includes optical device and different types of disks in conjunction with input/output system (136). See Fig 1B and col. 3. Lines 46-51.

Regarding claims 11 and 14, kawabe teaches the use of cable means for a pointing device. See col. 1, lines 13-25.

Regarding claims 20 and 35, see Yong's Fig 3A, Fig. 3B (316), (350).

Regarding claims 29-30, Kawabe teaches a pointing device (40) whose upper surface is provided with a sensor pad (40a). See Fig 8.

Regarding claims 31-32, Yong teaches an input device including a wheel assembly (212).

Kawabe has been described above. But Kawabe does not disclose a tracking device disposed on or within the cable receiver such that the tracking device generates signals based on movement of the pointing device. Ikehara on the other hand teaches a cursor moving switch (21) and a controller (24) system. See Fig. 7 Ikehara also teaches a cable (26) to connect the clicking switch (22) to the cursor-moving switch (34), and a cable (27) to connect the cursor-moving switch (34) to a mouse-connecting terminal of a personal computer. See Fig. 14, col. 8, lines 54-67 and col. 9, lines 1-6.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kawabe's pointing device to adapt Ikehara's cables (26, 27). One would have been motivated in view of the suggestion in Ikehara that cables as configured in Fig. 7 and Fig. 11 are functionally equivalent to the desired tracking device. The use of cables (26, 27) helps function a type of pointing device operated by a disabled person.

Conclusion

2. The prior art made of record and not relied upon is considered to applicant's disclosure.

The following arts are cited for further reference.

U.S. Pat. No. 6,486, 868 to Kazarian

U.S. Pat. No. 5,944,292 to Roman

3. Any inquiry concerning this communication or earlier communication from the examiner should be directed to **Abbas Abdulselam** whose telephone number is (703) 305-8591. The examiner can normally be reached on Monday through Friday (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached at (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of patents and Trademarks

Washington, D.C. 20231

or faxed to:

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(703) 872-9314

Hand delivered responses should be brought to Crystal Park II, Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology center 2600 customer Service office whose telephone number is (703) 306-0377.

Abbas Abdulselam

Examiner

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October 18, 2003

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2000